JOB PERFORMANCE MEASURE

TASK COD	E : CBO-191			
TASK:	Calibrate/Maintain the Tennelec Series 5 XLB Counter			
NAME:	BADGE#			
2. 3. 4.	WP 12-HP1245, Tennelec Series 5 XLB Low Background Alpha/Beta Counting System Calibration, Operation, and Maintenance Tennelec Series 5 Service Manual Tennelec Series 5 XLB and HP Installation and Operational Verification Eclipse LB Software Operation Manual			
	A OBJECTIVE: the Tennelec Series 5 counting system, calibrate/maintain the system IAW WP 12-HP1245			
Impro	ENCES OF INADEQUATE PERFORMANCE: per survey results tal injury/illness			
HAZARDS (PERSONNEL/EQUIPMENT STATUS): Lead Exposure Pinch Point from moving mechanical parts				
PRE-REQU	ISITE TRAINING/ TASK COMPLETION: CFO-192, Operate a Tennelec Series 5 XLB Counter			
1. 2. 3. 4. 5.	MENT (MATERIALS REQUIRED): Tennelec Series 5 XLB P-10 Gas Attachment 1 of WP 12-HP1245 Crescent wrench Group, End, and Sample plates 6. Pu-239 source 5. Sr/Y-90 source 8. Tennelec Series 5 XLB Technical Manuals 9. Attachment 2 of WP 12-HP1245 10. Lubricant/cleaning supplies			

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	State the required Quality Control checks and their respective frequency.	
1	State the required calibration frequency of the Tennelec Series 5 XLB.	
2,3,4	Describe the operation of the Tennelec Series 5 XLB.	
1	State the precautions associated with the operation of the Tennelec Series 5 XLB.	
1	State which 2 plates must be used for every sample/background/efficiency count.	
1,2	State the maintenance activities that will void calibration.	
1,2	State requirements that must be met prior to moving the Tennelec Series 5 XLB any great distance.	
1,2	Identify the safety precaution(s) that must be taken prior to performing any maintenance on the Tennelec Series 5 XLB system.	
1	Define the term "spillover"	
4	Discuss the capabilities of the Eclipse LB interface used for calibration	

PERFORMANCE REQUIREMENTS:

Method	Performance Requirement	Pass/Fail
P#	Startup the Tennelec Series 5 XLB.	
P#	Determine system plateau	
P#	Perform ROI setup (spillover)	
P#	Perform efficiency count.	

Method	Performance Requirement	Pass/Fail
P	Perform background count	
P	Perform a gas cylinder change out	
P#	Complete required documentation for calibration.	
P	Review calibration results for abnormalities.	
P/S	Remove a stuck plate.	
P	Remove/Install lead shielding.	
P/S	Clean the Detector window.	
P/S	Remove the detector from the system.	
P/S	Lubricate the system.	
P#	Complete required documentation for maintenance.	
P	Review maintenance documentation for abnormalities.	

indicates a critical step

FINAL EVALUATION:	PASS	FAIL	
COMMENTS:			

EVALUATOR SIGNATURE:	DATE:
TRAINEE SIGNATURE:	DATE:
MANAGER SIGNATURE:	DATE: